AMENDMENT UNDER 37 C.F.R. § 1.111Attorney Docket No.: Q79955

U.S. Application No.: 10/785,084

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

1. (currently amended): A zirconia sintered body comprising tetragonal zirconia, wherein a full width at half maximum at (111) plane of the tetragonal zirconia obtained by X-ray diffraction pattern measured under the following conditions is from 0.38 to 4 degrees[[.]] having the following conditions:

## Conditions:

Radiation Source:

CuKa beam,

Voltage · Amplitude :

40 kV x 30 mA,

Monochromator:

Graphite,

Divergence Slit:

1.0 degree,

Scattering Slit:

1.0 degree,

Detector Slit:

0.3 degree,

Step Size:

0.2 degree,

Time/step:

continuous

Background Correction:

made,

Scan Speed:

0.4 degree/minute, and

wherein the zirconia sintered body contains A1<sub>2</sub>O<sub>3</sub> and an amount of Al<sub>2</sub>O<sub>3</sub> in the zirconia sintered body is about 0.5% by weight or less, and wherein the zirconia sintered body contains a stabilizer and an amount of the stabilizer in the zirconia sintered body is about 2% by weight or

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more and 5.25% by weight or less, and the stabilizer is at least one selected from the group consisting of  $Y_2O_3$ ,  $CeO_2$ ,  $TiO_2$ ,  $Yb_2O_3$ ,  $Er_2O_3$ , and  $Ho_2O_3$ , and wherein an average grain size of the zirconia sintered body is from 0.01 to 0.2  $\mu$ m and a density of the zirconia sintered body is 6.00 g/cm<sup>3</sup> or more.

- 2. (currently amended): The zirconia sintered body according to Claim 1, wherein the full width at half maximum at (111) plane of the tetragonal zirconia is from 0.4 to 2 degrees.
- 3. (original): The zirconia sintered body according to Claim 1 or 2, wherein the full width at half maximum at (111) plane of the tetragonal zirconia is 1 degree or less.
- 4. (original): The zirconia sintered body according to Claim 1, wherein a ratio of the tetragonal zirconia in the zirconia sintered body is 90 % by volume or more.

Claims 5 and 6 (canceled).

7. (previously presented): The zirconia sintered body according to Claim 1, wherein the density of the zirconia sintered body is from 6 to 6.1 g/cm<sup>3</sup>.

Claims 8 to 10 (canceled).

11. (previously presented): A method for producing the zirconia sintered body, wherein the method comprises steps of

molding zirconia powder having an average particle diameter of from 0.1 to 0.6  $\mu$ m, a maximum particle diameter of 5  $\mu$ m or less and a substantially polyhedral shape, and then sintering the molded green body under the temperature of from 1200 to 1400 °C.

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- 12. (currently amended): The method according to Claim 11, wherein the zirconia powder contains a monoclinic crystal.
- 13. (original): The method according to Claim 12, wherein a ratio of the monoclinic crystal in the zirconia powder is 70 % by volume or more.